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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/781,922 | 02/05/2001 | Arthur Doskow | 414.036CIP/09908722 | 4220 |

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EXAMINER

PIZARRO, RICARDO M

ART UNIT

PAPER NUMBER

2661

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/781,922

Applicant(s)

DOSKOW ET AL.

Examiner

Ricardo Pizarro

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 February 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-76 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4,7,9,15,47 and 52-57 is/are rejected.
- 7) ☐ Claim(s) 2-3, 5-6, 8, 10-14, 16-46, 48-51 and 58-76 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 1-76 are objected to because of the following informalities:

It is suggest to applicant , for better reading and clarity of the claims

In claim 1 line 9 replace "cenral office" with -central office-.

In claim 9 line 8 replace "cenral office" with -central office-.

In claim 23 line 1 replace 'other" with -another-.

In claim 38 line 1 replace '27" with -37-.

In claim 40 line 3 insert " asset of" before -control messages-.

In claim 41 line 1 insert " set of" after -said- and replace "template" with -templates-

In claim 47 line 6 replace "message" with -messages-, in line 8 insert "said" before -
control data messages-. In claim 62 line 2 replace "message" with -messages-.

In claim 62 line 3 replace "message" with -messages-.

Claims 2-8, 10-46 and 48-76 are objected to due to its dependency.

Appropriate correction is required.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4, 7, and 9, 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elliott.

US patent No. 6,614,781 (Elliott et al) discloses a communication network, comprising:

(A) local communication links (Local links in Fig. 1, (B) a plurality of separately located central office switching systems interconnected via trunk circuits for selectively providing switched call connections between at least two of the local communication links (a plurality of Switching points SSS 126 in SS7 network 114 in Fig. 1- said SS7 network is shown in more detail including said SSPs 126 in Fig. 17C, col 83 lines 54-57), (C) a signaling communication system including at least one signaling network element, said signaling communication system configured to provide two-way communications of control data messages between and among said central office switching systems and said signaling network element, said signaling communication system interconnecting the central office switching systems and said signaling network element (SS7 network in Fig. 1 that provides two way communication between SSPs and signaling gateway 208 located within Soft switch 104 in Fig. 1, SS7 gateway 208 is shown in more detail as part of Soft switch 104 in Fig 2a-1)in ; (D) a signaling gateway, separate from the central office switching systems, and connected to said signaling communications system, said signaling gateway including an interface connected to a remote communications network and configured to exchange said control data messages between said remote communication network and said signaling communication system (Signaling gateway 208 part of Soft switch site 104 that is separate from SSP 126 switches in SS7 network 114 in Fig. 1 and exchanges control messages) , and (E) a signaling system monitor, separate from the central office switching systems, said signaling system monitor configured to determine if said control data messages are proper (Soft switch site elements 104 and 106 in Fig. 1, col 30 lines 23-28, said

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Soft switch element in one of the Embodiments include a gateway screening software feature located within STPs 250 and 250 within switch 104 in Fig. 1 seen in more detail also in Fig. 2a-1. Gateway screening can be performed on all in-bound messages from another network. Gateway screening can also be performed on all outgoing network management messages, col 39 lines 18-25), as in claims 1 and 9; said control messages are ISUP messages (col 33 line 53), as in claim 4, said control messages are TCAP messages (col 33 line 55), as in claim 7 and 15 .

Elliott did not specifically disclose said system monitor being a system security monitor, as in claim 1 and 9 , however Elliott disclosed said monitor having message screening software.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention that said system monitor would have been capable of performing as a system security monitor due to its capability to screen received messages and determine whether those messages are proper messages using said screening software, this with the motivation of of obtaining a system for implementing packet switched communications for voice and data call that do no require special or dedicated access lines and still is capable of performing a secure way.

Claims 47 , 52, 53, 54, 55, 56, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elliott..

A method of interfacing control links of respective communication networks, comprising the steps of: exchanging control data messages (i.e. control messages col 167 and 168 lines 14-17) between a remote communication network and a local signaling communication system (

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remote network 112 and SS7 signaling network 114 in Fig. 1); interpreting said control data messages to determine whether it is appropriate with respect to a destination point code of said control data message and, in response, determining if said control data messages are proper (said interpreting and determination takes place at Soft Switch site 104 in Fig. 104 in Fig. 1, by looking at information in IAM message to determine destination, col 194 lines 37-45) and communicating control data messages between central office switching systems (said central office switching located at SS7 in Fig. 1, shown in more detailed in as switches SSP 126 in Fig. 17C); and providing switched call connections between at least two of the local communication links in response to said control data messages (switched called connections provided to links 102 and 122 in fig. 1), as in claim 47; converting a protocol of said control messages between a protocol of said remote network and a protocol of said signaling network (conversion taking place at gateway site 108 in Fig. 2A), as in claim 52; one of said protocols is an SS7 compliant protocol (i.e SS7 gateways in the network, col 33 line 15, as in claim 52; one of said protocol is in an IP format (col 4 lines 36), as in claim 54; said monitor is configured to monitor information contained in an MTP layer of said control messages (col 33 lines 43-45), as in claim 55; said information includes a destination point code, an origination point code, as in claim 56; monitoring of at least a ISUP message (col 33 line 53), as in claim 57.

Elliot did not specifically disclose said system monitor being a system security monitor, as in claim 1 and 9, however Elliott disclosed said monitor having message screening software.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention that said system monitor would have been capable of security

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interfacing control links of respective networks due to its capability to screen received messages and determine whether those messages are proper messages using said screening software, this with the motivation of obtaining a system for implementing packet switched communications for voice and data calls, including the signaling, routing and manipulation of traffic in a secure way

Allowable Subject Matter

4. Claims 2-3, 5-6, 8, 10-14, 16, 46, 48-51, 58-76 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claim. Please also notice objection to claims under 37 CFR 1.75.

Conclusion

5. Examiner would like to apologize to applicant due to not being able to enter Examiner's Amendment as per our previous conversation.

6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306

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(for formal communications intended for entry, for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to 220 South 20th Street, Crystal Plaza Two, Lobby, Room 1B03, Arlington, Va 22202 (Customer Window).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Ricardo Pizarro** whose telephone number is (571) 272-3077. The examiner can normally be reached on Monday-Friday from 9:00 AM to 5:30 PM. The fax number for this Group is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Kenneth Vanderpuye** can be reached on (571) 272-3078.

12/22/2004

Ricardo M. Pizarro



KENNETH VANDERPUYE
PRIMARY EXAMINER